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Office Memorandum . United states government

то :	The Files	TE: 17 May 1957	
FROM :		50)	X 1
su bject :	Test of Ground Communication Equipment		50X1 50X1 50X1 50X1 50X1 50X1
	1. On 30 April 1957 a test was conducted developed VLF Ground Communications System. Two fi	-	X 1
	operating at 30 kc. were built by and equipped with 200' long and and ground probes for transmission through the eart than via the atmosphere. The object of this arrange	50) tenna leads 50) th rather gement was to	
	provide a high degree of security against intercept ordinary techniques. No figures were evailable, he the above-ground radiation of the 30-watt field unique purpose of the test was to determine of there we ground radiation from the equipment, the long antener from the ground itself. In addition to Laboratory the following individuals participated in the test:	owever, on its. The was any above- 50) na leads, or personnel,	X 1
			X 1
	2. The test was made from a point 500' from to Building to a house lot approximately 1 mile away as in altitude. Contact was established immediately as of QRK5 QSA4/5 were exchanged. According to signals were stronger than should have been expected time of day (1400 EDT).	and 500' lower and reports the 50)	X 1
	3. A monitor station set up at the Lab building an HRO and a conventional antenna 100' long, had no hearing both ends of the circuit QRK5 QSA5. The stabove-ground radiation discouraged further experiment the system obviously possessed little or no inherent	difficulty crength of the entation since 50X1	
	reported the results of this on a visit 10 May. The company was at a lathe excessive radiation and suggested using buried	oss to explain 50)	
	for the ground probe leads. offered to continu		(1
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-	a sideline" on its exp		this	5
summer. No in	dication of interest wa	as made, however,	by	5
6. The e	quipment and associated	l reports and lite	erature is	
	EP pending disposition			
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